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(54) Title: HALOGEN FREE POLYMER AND AUTOMOTIVE WIRE USING THEREOF

(57) Abstract: The present invention discloses an insulation composition for halogen-free automotive cables, which comprises a matrix resin, 50-200 parts by weight, based on 100 parts by weight of the matrix resin, of a metal hydroxide flame retardant, and 0.5-20 parts by weight of an antioxidant, in which the matrix resin consists of 1-80 parts by weight of a polyethylene resin, 1-80 parts by weight of an ethylene copolymer resin, and 1-20 parts of a terpolymer of polyethylene, acrylic ester and maleic anhydride. The inventive composition and automotive cables including the same show a reduction generation of poisonous gas and smoke and are eco-friendly. In addition, they are excellent in physical properties, such as flame retardancy, abrasion resistance, scratch resistance, harness, and thermal resistance, and can be extruded at high speed.

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